

QFW



Docket No.: 4727-103 US

The undersigned certifies that this communication is being deposited with the United States Postal Service as prepaid first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 14, 2004.


Diane Dunn McKav

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	
ADAMOVICS, John A.	:	
	:	
Serial No.: 10/790,280	:	Group Art Unit: 2856
	:	
Filed: March 1, 2004	:	Examiner: TBD
	:	
Title: THREE-DIMENSIONAL DOSIMETER	:	
FOR PENETRATING RADIATION AND	:	
METHOD OF USE	:	
	x	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

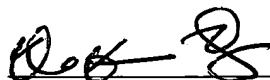
Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, Applicant hereby brings to the attention of the United States Patent and Trademark Office the following documents of which Applicant has been made aware. The documents are listed on the attached PTO Form 1449. Copies of the documents are enclosed.

Applicant submits that this Information Disclosure Statement is submitted prior to a first action on the merits.

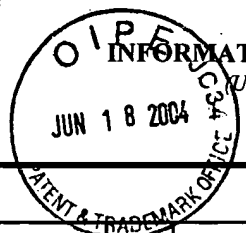
It is requested that the references be considered by the Examiner and be made of record as part of the available prior art under 37 C.F.R. § 1.104.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Diane Dunn McKay', is written over a horizontal line.

Diane Dunn McKay
Reg. No. 34,586
Attorney for Applicant

MATHEWS, COLLINS, SHEPHERD & McKAY, P.A.
100 Thanet Circle, Suite 306
Princeton, NJ 08540
Tel: 609 924 8555
Fax: 609 924 3036



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

4727-103 US

Application Number

10/790,280

Applicant(s)

ADAMOVICS, John A.

Filing Date

March 1, 2004

Group Art Unit

TBD

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2,936,276	05/10/1960	CHALKLEY	204	158	
		3,370,981	02/27/1968	NEY, et al.	117	230	
		3,609,093	09/28/1971	HARRAH	252	300	
		3,710,109	01/09/1973	CHALKLEY	250	83	
		3,743,846	07/03/1973	MATSUMOTO et al.	250	474	
		3,903,423	09/02/1975	ZWEIG	250	474	
		4,143,274	03/06/1979	APFEL	250	473.1	
		4,288,861	09/08/1981	SWAINSON, et al.	250	473.1	
		4,350,607	09/21/1982	APFEL	252	408.1	
		4,394,737	07/19/1983	KOMAKI, et al.	378	23	
		4,575,330	03/11/1986	HULL et al.	425	174.4	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
		GB 2 182 941 A	05/28/1987	United Kingdom				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Kantz et al., "Quality Assurance for Radiation Processing", Radiat. Phys. Chem., Vol. 14, pp. 575-584, Pergamon Press Ltd. 1979.
		McLaughlin et al., "The Gamma-Ray Response of Radiochromic Dye Films at Different Absorbed Dose Rates", Radiat. Phys. Chem., Vol. 18, No. 5-6, pp. 987-999, 1981.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 5727-103 US		Application Number 10/790,280		
				Applicant(s) ADAMOVICS, John A.				
				Filing Date March 1, 2004		Group Art Unit TBD		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4,779,000	10/18/1988	ING	250	390.03		
		4,829,187	05/09/1989	TOMITA et al.	250	474.1		
		4,929,402	05/29/1990	HULL	264	401		
		4,996,010	02/26/1991	MODREK	264	401		
		4,999,143	03/12/1991	HULL et al.	264	401		
		5,015,424	05/14/1991	SMALLEY	264	401		
		5,058,988	10/22/1991	SPENCE	356	121		
		5,059,021	10/22/1991	SPENCE et al.	356	121		
		5,059,359	10/22/1991	HULL et al.	264	401		
		5,076,974	12/31/1991	MODREK et al.	264	401		
		5,096,530	03/17/1992	COHEN	156	226		
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
		Ueno, K., "Development of a Plastic Dosimeter for Industrial Use With High Doses", Appl. Radiat. Isot. Vol.31, Nos. 4-6, pp. 467-472, 1988, Int. J. Radiat. Appl. Instrum. Part C.						
		Olsson et al., "A New Dosimeter Based on Ferrous Sulphate Solution and Agarose Gel", Appl. Radiat. Isot. Vol. 42, No. 11, pp. 1081-1086, 1991, Int. J. Radiat. Appl. Instrum. Part A.						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 4727-103 US		Application Number 10/790,280		
				Applicant(s) ADAMOVICS, John A.				
				Filing Date March 1, 2004		Group Art Unit TBD		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,104,592	04/14/1992	HULL et al.	264	401		
		5,117,116	05/26/1992	BANNARD et al.	250	474.1		
		5,123,734	06/23/1992	SPENCE et al.	356	121		
		5,130,365	07/14/1992	KOLSHI et al.	524	520		
		5,319,210	06/07/1994	MOSCOVITCH	250	474.1		
		5,321,357	06/14/1994	MARYANSKI et al.	324	300		
		5,430,308	07/04/1995	FEICHTNER et al.	250	580		
		5,498,876	03/12/1996	MOSCOVITCH	250	474.1		
		5,633,584	05/27/1997	MARYANSKI et al.	324	300		
		5,661,310	08/26/1997	JONES	250	584		
		6,218,673	04/17/01	GORE et al.	250	474.1		
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
		Muthyala, R., "Chemistry and Applications of Leuco Dyes", Topics in Applied Chemistry, Plenum Press, New York, 1997, no page numbers.						
		Hart, E et al., "Chemical Dosimetry, Chapter 12, pp. 167-239, Radiation Dosimetry, Academic Press, 1966.						
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 4727-103 US	Application Number 10/790,280
		Applicant(s) ADAMOVICS, John A.	
		Filing Date March 1, 2004	Group Art Unit TBD

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Parthenopoulos, D. and Rentzepis, P., "Three-Dimensional Optical Storage Memory" pp. 843-845, August 25, 1989, Department of Chemistry, University of California Irvine, Irvine CA.
	Becker, Klaus, "Solid State Dosimetry" Chapter 6, pp. 230-237, CRC Press, 1976
	McKinlay, A.F., "Thermoluminescence Dosimetry" Chapter 4, "Applications of Thermoluminescence Dosimetry in Medicine", pp. 59-88, 1981.
	Farahani, M et al., "Radiochromic Solutions for Reference Dosimetry", Appl. Radiat. Isot. Vol. 41, No. 1, pp. 5-11, 1990, Int. J. Radiat. Appl. Instrum. Part A.
	Diffey, B.L et al., "A dosimeter for long wave ultraviolet radiation", British Journal of Dermatology (1977) 97, pp 127-130.
	McJury, M et al., "Radiation dosimetry using polymer gels: methods and applications", The British Journal of Radiology 73 (2000), pp. 919-929.
	Zweig, J et al., "Drug Activation by Gamma Irradiation: A New Direction for Molecular Design. Part I: In Vitro and In Vivo Studies of a Substituted Polyamino-aryl Nitrile", Cancer Treatment Reports, Vol. 61, No. 3, May/June 1977.
	Hoecker, F.E. and Watkins, I.W., "Radiation Polymerization Dosimetry", International Journal of Applied Radiation and Isotopes, 1958, Vol. 3, pp. 31-35. Pergamon Press Ltd., London.
	McLaughlin, W.L. "The Gamma-Ray Response of Pararosaniline Cyanide Dosimeter Solutions", International Journal of Applied Radiation and Isotopes, 1974, Vol. 25, pp. 249-262.
	Kosanic, M et al., "Liquid Radiochromic Dye Dosimetry for Continuous and Pulsed Radiation Fields Over a Wide Range of Energy Flux Densities", International Journal of Applied Radiation and Isotopes, 1977, Vol. 28, pp. 313-321.
	Miyaji, T et al., "Development of a Radiation Dosimeter Consisting of Leuco Crystal Violet and a Small Amount of Halocarbons", Journal of Photopolymer Science and Technology, Vol. 14, No. 20(2001), pp. 225-226.
	Tokita, S. et al., "Application of Photo Acid Generators for y Rays Detective Materials", Journal of Photopolymer Science and Technology, Vol. 14, No. 2 (2001), pp. 221-224.

EXAMINER	DATE CONSIDERED
-----------------	------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 4727-103 US	Application Number 10/790,280
		Applicant(s) ADAMOVICS, John A.	
		Filing Date March 1, 2004	Group Art Unit TBD
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	MacLachlan, A., "The Carbon Tetrachloride Sensitized Photooxidation of Leuco Ethyl Crystal Violet", The Journal of Physical Chemistry, pp. 718-722, 1966.		
	Bobrowski, K et al., "A Pulse Radiolysis Study of the Leucocyanide of Malachite Green Dye in Organic Solvents", J. Phys. Chem. 1985, 89, pp. 4358-4366.		
	Appleby, A and Leghrouz, A., "Imaging of radiation dose by visible color development in ferrous-agarose-xylene orange gels", Med. Phys. 18(2), Mar/Apr pp. 309-312, 1991.		
	Niroomand, A et al., "Radiochromic film dosimetry: Recommendations of AAPM Radiation Therapy Committee Task Group 55", Med. Phys. 25 (11), November 1998, pp. 2093-2115.		
	Day, M et al., "Chemical Effects of Ionizing Radiation in Some Gels", Nature, July 22, 1950, Vol. 166, pp. 146-147.		
	Rahn, R et al., "Technical Note Iodouracil as a Personal Dosimeter for Solar UVB", Photochemistry and Photobiology, 1998, 68(2), pp. 173-178.		
	Diffey, B.L., "Observed and Predicted Minimal Erythema Doses: A Comparative Study", Photochemistry and Photobiology, Vol. 60, No. 4, pp. 380-382, 1994.		
	Gore, J. C et al., "Measurement of Radiation Dose Distributions by Nuclear Magnetic Resonance (NMR) Imaging", Phys. Med. Biol., 1984, Vol. 29, No. 10, 1189-1197.		
	Schulz, R. J et al., "Dose-Response Curves for Fricke-Infused Agarose Gels as Obtained by Nuclear Magnetic Resonance", Phys. Med. Biol., 1990, Vol. 35, No. 12, pp. 1611-1622.		
	Day, M., "Radiation Dosimetry Using Nuclear Magnetic Resonance: An Introductory Review", Phys. Med. Biol, 1990, Vol. 35, No. 12, pp. 1605-1609.		
	Parisi, A. V et al., "Assessment of the Exposure to Biologically Effective UV Radiation Using a Dosimetric Technique to Evaluate the Solar Spectrum", Phys. Med. Biol. 42, (1990) pp. 77-88.		
	MacDougall, N. D et al., "A Systematic Review of the Precision and Accuracy of Dose Measurements in Photon Radiotherapy Using Polymer and Fricke MRI Gel Dosimetry", Phys. Med. Biol. 47 (2002), pp. R107-R121.		
EXAMINER		DATE CONSIDERED	
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 4727-103 US		Application Number 10/790,280	
		Applicant(s) ADAMOVICS, John A.			
		Filing Date March 1, 2004		Group Art Unit TBD	
*EXAMINER INITIAL		OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
		Chu, K. C et al., "Polyvinyl Alcohol-Fricke Hydrogel and Cryogel: Two New Gel Dosimetry Systems with Low Fe3+ Diffusion", Phys. Med. Biol. 45 (2000) pp. 955-969.			
		Sidney, L. N et al., "A New Radiochromic Dosimeter Film", Radiat. Phys. Chem. Vol. 35, Nos 4-6, pp. 779-782, 1990.			
		Khan, H et al., "A Radiochromic Film Dosimeter For Gamma Radiation in the Absorbed-Dose Range 0.1-10 kGy", Radiat. Phys. Chem Vol. 38, No. 4, pp. 395-398, 1991.			
		Petkov, I et al., "New Two-Functional UVR Sunscreen Protector and Dosimeter", www.photobiology.com/photobiology2000/petkov/index.htm , May 11, 2004.			
EXAMINER		DATE CONSIDERED			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					